ROBOTICS

Innovation and Research

Xbox Flight Simulator Controls | HC Robotics

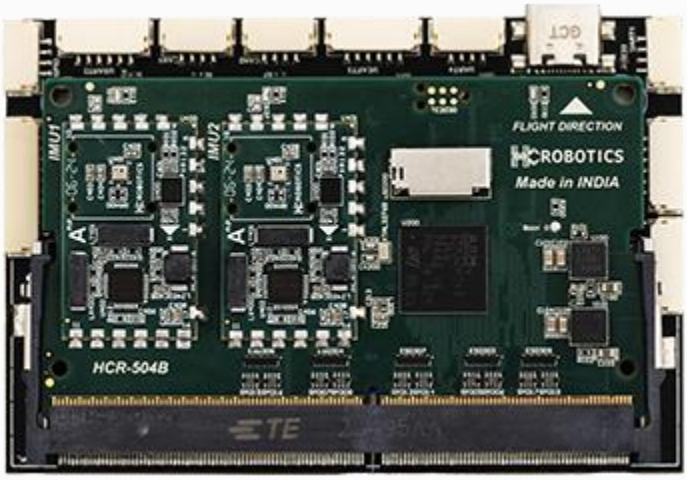
The FC-E504 Edge Flight Controller from HC Robotics is engineered with robust features to ensure stable and responsive flight. Integrating advanced sensors, a high-performance H7 processor, and versatile connectivity options, this flight controller delivers precise control and adaptability for various flight conditions and payloads.

Highlights:

- Increase your Indigenous Content (IC)
- Local sales, support and repairs
- Low cost yet with global standards
- Built on 16+ years of experience in flight controller technology
- Supply Chain Security: We focus on genuine sources
- Rigorous Testing: Extensive pre-delivery validation

Features:

- Effortless configuration, plug and play
- Superior Form Factor and Connectivity
- Unified connector offering exceptional flexibility
- Seamless integration with most vehicle types
- Digital power connectors ensure efficient power management
- CAN connectors with precise digital power voltage readings
- Extremely low ripple noise for enhanced performance
- Ensures stable electrical environments for smooth vehicle control



Flight Controller SOM: HCR-504B

Comprehensive Ports and Interfaces:

- 2 high-speed FD CAN ports (8 Mbits)
- 7 serial ports (2 supporting hardware flow control)
- Optional Ethernet port available via custom carrier boards
- 9 dedicated GPIO pins
- 8 dedicated analog inputs
- 4 I2C buses (2 for external use, 2 for Flex Board)
- 5 SPI ports (4 for Flex Board, 1 for external use)

- SD card socket for data logging

Specifications:

Model Number	FC-E504
Main Processor	H7 ARM® Cortex®-M7 480Mhz
RAM	1MB
FRAM	32kbytes for dedicated storage parameters
Flash	2MB
External Memory	SD Card Support
IMU	HCR-505 “A”; Integrated with dual IMUs for redundancy and precision
Sensors	Dual 3-axis Accelerometer; Dual 3-axis Gyroscope Dual Pressure Sensor; Dual 3-axis Magnetome
Carrier Board	HCR-504B Required
Connectors	JST-GH; USB-C
Interface and Protocol	8x PWM outputs; 4x GPIO; 2x FD CAN (8Mb) 2x Serial ports with HW flow control; 2x Serial ports compatible input FRSky Telemetry port output; SIYI compatible LED Status, mode, and power indi
Power	Input: 5V DC to 5.5V DC; Output: 3.3V DC
Weight	88g (FC with carrier board and enclosure)
Dimensions	80x55x20 mm – FC

Operating Temperature	-40℃ to +85℃
Enclosure	Aluminum case
Supported Firmware	Ardupilot, PX4
Typical Vehicles	Multirotor; Rover; Fixed wing; VTOL; Boats and general robots

Have Questions or Need Assistance?

Fill out the form below, and our team will get back to you at the earliest.

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